APR 29 2002

Access DB# 65501

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Urszula Cegielnik Examiner #: 77064 Date: 4/29/02
Art Unit: 3712 Phone Number 305-8806 Serial Number: 09 695429
Mail Box and Bldg/Room Location: CP2 10C02 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Ultrasonic Signaling Interactive Toy

Inventors (please provide full names): Chun-Yang Hsiao

Earliest Priority Filing Date: 7/5/2000

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

An ultrasonic signaling interactive toy comprising of at least one ultrasonic transceiver inside an interactive toy. The ultrasonic transceiver is capable of transmitting and receiving ultrasonic signals. Each interactive toy includes at least one ultrasonic transceiver for producing a response after receiving an ultrasonic signal. Since ultrasonic signals can be transmitted or received using the same circuit, power consumption and production costs are low.

* See attached claims.

doll sound producing (driver)

A63H-003/28
446/297.000

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STAFF USE ONLY		Type of Search		Vendors and cost where applicable	
Searcher:	JEANNE HORRIGAN	NA Sequence (#)		STN	
Searcher Phone #:	305-5934	AA Sequence (#)		Dialog	✓
Searcher Location:	CP2-2C08	Structure (#)		Questel/Orbit	
Date Searcher Picked Up:	5-10	Bibliographic	✓	Dr.Link	
Date Completed:	5-10	Litigation		Lexis/Nexis	
Searcher Prep & Review Time:	44	Fulltext		Sequence Systems	
Clerical Prep Time:		Patent Family		WWW/Internet	
Online Time:	56	Other		Other (specify)	

PTO-1590 (1-2000)

9:45 - 1:50

File 350:Derwent WPIX 1963-2001/UD,UM &UP=200229
File 344:CHINESE PATENTS ABS APR 1985-2002/MAR
File 347:JAPIO Oct/1976-2001/Dec(Updated 020503)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	114	AU='HSIAO C'
S2	171250	**ULTRASO**?
S3	0	S1 AND S2
S4	24248	TOY? ?
S5	0	S1 AND S4

****

File 348:EUROPEAN PATENTS 1978-2002/May W01
File 349:PCT FULLTEXT 1983-2002/UB=20020502,UT=20020425

Set	Items	Description
S1	**1**	**AU='HSIAO CHUNG FANG' [not relevant]**

****

File 350:Derwent WPIX 1963-2001/UD,UM &UP=200229
File 347:JAPIO Oct/1976-2001/Dec(Updated 020503)
File 344:CHINESE PATENTS ABS APR 1985-2002/MAR
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	96	AU='HO S'
S2	5	AU='HO S P'
S3	171250	**ULTRASO**?
S4	24248	TOY? ?
S5	0	S1:S2 AND S3:S4

****

24/6,K/5 (Item 5 from file: 148)
DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.
08467490 SUPPLIER NUMBER: 17917369 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Vendors calculate compu-toys' success. (combination toy/computer produced by Fisher-Price and Compaq Computer)
Feb 5, 1996
WORD COUNT: 1250 LINE COUNT: 00103
... of various themes based on time travelers, explained Dick Garvey, vice president of marketing.
1996 Toy Fair introductions also include the following: * Basic ...
...a 5-in-1 electronic game system) and VideoCam (a camcorder for kids); * Wild Planet Toys : Beast Blasters (foam-shaped creature gliders), **Supersonic Ear (a listening device for kids)** and Bug Catcher.

24/6,K/10 (Item 10 from file: 148)
DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.
01887679 SUPPLIER NUMBER: 02829835 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Licensing furthermore. (retail licenses)
July, 1983
WORD COUNT: 1997 LINE COUNT: 00156
... show. Also showcased was Camp Snoopy, a top-billed new feature of
...at the White House Easter Egg Roll to present their musical production, the Shirt Tales **Supersonic Song & Dance Revue**. Smurfs, licensed by Wallace Berrie, also participated in the Egg Roll. And...

File 9:Business & Industry(R) Jul/1994-2002/May 09

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File  16:Gale Group PROMT(R) 1990-2002/May 09
File  47:Gale Group Magazine DB(TM) 1959-2002/May 10
File  80:TGG Aerospace/Def.Mkts(R) 1986-2002/May 09
File 141:Readers Guide 1983-2002/Apr
File 148:Gale Group Trade & Industry DB 1976-2002/May 10
File 160:Gale Group PROMT(R) 1972-1989
File 481:DELPHES Eur Bus 95-2002/Apr W4
File 482:Newsweek 2000-2002/May 09
File 484:Periodical Abs Plustext 1986-2002/May W2
File 621:Gale Group New Prod.Annou.(R) 1985-2002/May 09
File 636:Gale Group Newsletter DB(TM) 1987-2002/May 09
File 646:Consumer Reports 1982-2002/Apr
File 635:Business Dateline(R) 1985-2002/May 09
File 610:Business Wire 1999-2002/May 10
File 613:PR Newswire 1999-2002/May 10
File 810:Business Wire 1986-1999/Feb 28
File 813:PR Newswire 1987-1999/Apr 30
File 609:Bridge World Markets 2000-2001/Oct 01
File 649:Gale Group Newswire ASAP(TM) 2002/May 09
File 112:UBM Industry News 1998-2002/May 09
File  20:Dialog Global Reporter 1997-2002/May 10
Set     Items   Description
S1      95320   ULTRASO?
S2      28504   SUPERSONIC
S3      76794   TRANSCEIV?
S4       6996   TRANSMITTER?()RECEIVER?
S5      58262   TRANSMIT????(2N)RECEIV???
S6     477545   TOY OR TOYS
S7      98583   DOLL OR DOLLS
S8       8830   PLAYTHING?
S9     244591   AMUSEMENT? ?
S10     10928   STUFFED()ANIMAL? ?
S11    123666   S1:S2
S12    780396   S6:S10
S13       228   S11(S)S12
S14    126128   S3:S5
S15         0   S13(S)S14
S16   2311499   INTERACT?
S17   4120652   RESPON????
S18         6   S13(S)S16
S19         5   S13(S)S17
S20        11   S18 OR S19
S21        11   RD (unique items)
S22         1   S21/2002 OR S21/2001
S23        10   S21 NOT S22
S24        10   Sort S23/ALL/PD,D
*************
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28/6,K/2 (Item 1 from file: 8)
DIALOG(R)File 8:(c) 2002 Engineering Info. Inc. All rts. reserv.
03108002
Title: Incremental 3D **ultraso**und imaging from a 2D scanner.
Publication Year: 1990
Abstract: The development of an interactive system that will display 3-D structures from a series of 2-D images acquired incrementally by a

conventional 2-D **ultraso**und echographic (2DE) scanner is discussed. The user-guided scanner head is mounted on a mechanical...
...design and implementation of the system, visualization algorithm, and results of an experiment with a doll phantom to test its feasibility are reported. 16 Refs.
Identifiers: **ULTRASO**UND ECHOGRAPHIC SCANNER; VISUALIZATION ALGORITHM; INCREMENTAL **ULTRASO**UND IMAGING; INCREMENTAL VOLUME RENDERING

28/7/1 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus

03374395 JICST ACCESSION NUMBER: 97A0967464 FILE SEGMENT: JICST-E
Development of autonomous robot. The interaction between environment and shape.
NAKANO ITARU (1); IIJIMA DAISUKE (1); MAKINO TSUTOMU (1); YOKOI HIROSHI (1); KAKAZU YUKINORI (1)
(1) Hokkaido Univ., Fac. of Eng.
Nippon Kikai Gakkai Hokkaido Shibu Koenkai Koen Gaiyoshu, 1997, VOL.37th, PAGE.95-96, FIG.5
JOURNAL NUMBER: L0175AAG
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.52
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: This paper describes devices and problems of a sumo-robot that was designed for Sumo-Robot Competition which was held in our laboratory. As sumo is a game which a player encounters the opponent, so sumo-robot needs its autonomy to take an adaptive behavior in the environment. It is the approach described in this paper that we make the information processing system and the shape determine the strategy. In short, the significant shape directs a sum of force vectors act on a point of contact to an ideal direction. We built a sumo-robot based on this idea. The result of the competition revealed the problems of this robot. (author abst.)

33/6,K/10 (Item 10 from file: 94)
DIALOG(R)File 94:(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.
03629424 JICST ACCESSION NUMBER: 98A0491074 FILE SEGMENT: JICST-E
VR sensor and the applied technologies. Dynamic three-dimensional angle sensor by gyroscope and accelerometer. , 1998
...DESCRIPTORS: **ultraso**nic measurement
...BROADER DESCRIPTORS: toy ;

33/6,K/12 (Item 12 from file: 94)
DIALOG(R)File 94:(c)2002 Japan Science and Tech Corp(JST). All rts.reserv.
03446432 JICST ACCESSION NUMBER: 98A0156302 FILE SEGMENT: JICST-E
Deveropment of an Insect Type Robot for Fire-Fighting., 1997
ABSTRACT: This paper describes developed an amusement robot which has biological behaviors of insects. The robot imitates moving behavior of insect reflexting...
...DESCRIPTORS: **ultraso**nic measurement

33/6,K/23 (Item 23 from file: 94)
DIALOG(R)File 94:(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.
01983453 JICST ACCESSION NUMBER: 94A0025346 FILE SEGMENT: JICST-E

Special issue : Guides for labor saving and automation equipment for system control. **Ultrason**ic linear scale BTL2., 1993
ABSTRACT: The structure, principle, and features of the titled **ultrason**ic linear scale are described. The following applications are presented : Detection of the stroke of a hydraulic cylinder for working equipment, feedback with a hydraulic cylinder for amusement equipment, blade pitch control of a wind power generator, and feedback of the movement...
DESCRIPTORS: **ultrason**ic measurement...

33/6,K/24 (Item 24 from file: 94)
DIALOG(R)File 94:(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.
01613761 JICST ACCESSION NUMBER: 92A0551223 FILE SEGMENT: JICST-E
The survey report on trends in new surface mounting technology (SMT).Data collection.(Sponsor : Japan Printed Circuit Assoc.)., 1992
...ABSTRACT: word processors, duplicators.3) Telephone sets and telecommunication equipment.4) Broadcasting equipment.5) X-ray, **ultrason**ic , medical equipment.6) Electrical measuring instruments.7) Control equipment.8) Audio equipment.9) Video equipment...
...television and VTR.10) Automobile electrical parts.11) Electronic clocks, camera, kitchen instruments, lighting equipment, toys , etc..12) Power source equipment. 1992.3!.

33/6,K/27 (Item 27 from file: 35)
DIALOG(R)File 35:(c) 2002 ProQuest Info&Learning. All rts. reserv.
01214717 ORDER NO: AAD13-46265
MULTI-SENSOR FUSION FOR NONDESTRUCTIVE INSPECTION OF FIBER REINFORCED COMPOSITE STRUCTURES
Year: 1991
...also in the fabrication of increasing numbers of consumer products such as skis, furniture, and toys . For safety purposes as well as for quality control, nondestructive inspection (NDI) of composite structures...
...observed specimen. In this thesis, three nondestructive inspection techniques have been used, namely X-radiography, **ultrason**ic C-scan, and acoustic emission. Algorithms to analyze the data obtained from each NDI...

33/7/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2002 Engineering Info. Inc. All rts. reserv.
05350774 E.I. No: EIP99094766581
Title: Train spotting
Author: Stickney, Jaret; Pruehsner, William; Enderle, John D.
Corporate Source: Univ of Connecticut, Storrs, CT, USA
Conference Title: Proceedings of the 1999 IEEE/EMBS 25th Annual Northeast Bioengineering Conference
Conference Location: West Hartford, CT, USA Conference Date: 19990408-19990409
Sponsor: IEEE EMBS; BEACON; University of Hartford; Whitaker Foundation
E.I. Conference No.: 55365
Source: Bioengineering, Proceedings of the Northeast Conference 1999. p 17-18
Publication Year: 1999
CODEN: BENYDB
Language: English
Document Type: JA; (Journal Article) Treatment: G; (General Review)
Journal Announcement: 9910W2
Abstract: **Train Spotting is a remotely operated toy vehicle** designed for a child. It is designed to be `crash proof' even in the most confined

areas. The vehicle uses both object sensing and key safety features to emphasize the need for an advanced riding vehicle for children that is also safe for everyday use. The Train Spotting system **has six ultrasonic sensors**, two DC motors, a DC battery, a microcontroller, a seat safety belt, and three toggle switches. 1 Refs.

33/7/4 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05350773 E.I. No: EIP99094766580
Title: Scoot Along
Author: Ucol, Elvin; Pruehsner, William; Enderle, John D.
Corporate Source: Univ of Connecticut, Storrs, CT, USA
Conference Title: Proceedings of the 1999 IEEE/EMBS 25th Annual Northeast Bioengineering Conference
Conference Location: West Hartford, CT, USA Conference Date: 19990408-19990409
Sponsor: IEEE EMBS; BEACON; University of Hartford; Whitaker Foundation
E.I. Conference No.: 55365
Source: Bioengineering, Proceedings of the Northeast Conference 1999. p 15-16
Publication Year: 1999
CODEN: BENYDB
Language: English
Document Type: JA; (Journal Article) Treatment: G; (General Review)
Journal Announcement: 9910W2
Abstract: **Scoot Along is a transportation device that specializes in maneuvering in small, confined areas**. It provides a cost-effective way of motorizing a toy car to serve as a source of transportation for a small child. The mobility aid has an `in dash' radio that makes the device an enjoyable toy . **Ultrasonic sensors and speed adjustment controls are added to prevent accidents and to provide safe usage**. The chassis include: a joystick controller, main controller, steering and collision controllers, two DC motors, a battery, **ultraso**nic sensors, and an FM/AM radio. 1 Refs.

33/7/8 (Item 8 from file: 94)
DIALOG(R)File 94:JICST-EPlus

03903200 JICST ACCESSION NUMBER: 99A0119818 FILE SEGMENT: JICST-E
Creativity education and making. Birds swoop preventing equipment BIRD STOPPER F.F.type(Flying Falcon).
SUGIMOTO HIROAKI (1)
(1) Osakawinton
Haikan Gijutsu(Piping Engineering), 1998, bessatsugo, PAGE.64-65, FIG.2
JOURNAL NUMBER: G0858AAX ISSN NO: 0385-9894 CODEN: HAGIB
UNIVERSAL DECIMAL CLASSIFICATION: 614.777:614.87:63
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Introduction article
MEDIA TYPE: Printed Publication

33/7/13 (Item 13 from file: 94)
DIALOG(R)File 94:JICST-EPlus

03374394 JICST ACCESSION NUMBER: 97A0967463 FILE SEGMENT: JICST-E
Development of Autonomous Robot. Effective use of Sensor for Sumou-Robot.
KINOSHITA YASUFUMI (1); YASHIMA DAISUKE (1); ISHIDA TAKASHI (1); YOKOI

HIROSHI (1); KAKAZU YUKINORI (1)
(1) Hokkaido Univ., Fac. of Eng.
Nippon Kikai Gakkai Hokkaido Shibu Koenkai Koen Gaiyoshu, 1997, VOL.37th, PAGE.93-94, FIG.2, REF.1
JOURNAL NUMBER: L0175AAG
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.52
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: This paper picks up the sumou as a problem for an autonomous mobile robot. **Supersonic waves system is used for the sensor and actuator of a sumou-robot,** 'Sensing the opponent, and pushing out'. And three types of tactics are proposed based on the information from limited number of sensors. The results of sumou-competition show the effect of the proposed tactics through actual bouts. (author abst.)

33/7/14 (Item 14 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.
03374393 JICST ACCESSION NUMBER: 97A0967462 FILE SEGMENT: JICST-E
Development of Autonomous Robot. Type ZERO.
TAKAHASHI NOBUYUKI (1); NAGAI TAKASHI (1); YOSHII SHIN'ICHIRO (1); YOKOI HIROSHI (1); KAKAZU YUKINORI (1)
(1) Hokkaido Univ., Fac. of Eng.
Nippon Kikai Gakkai Hokkaido Shibu Koenkai Koen Gaiyoshu, 1997, VOL.37th, PAGE.91-92, FIG.2, REF.2
JOURNAL NUMBER: L0175AAG
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.52
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: **To compete in the SUMOU Robot Tournament, we developed an autonomous robot which can find out the competitor and push down off the ring.** Our robot won the championship with 4 directions sonar, single board computer, floor search infrared sensor and powerful actuator. **The mechanism design and configuration of sensor and control system of robot are described in this paper.** (author abst.)

33/7/18 (Item 18 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.
02356630 JICST ACCESSION NUMBER: 95A0674071 FILE SEGMENT: JICST-E
A Robot Learning to Avoid Obstacle Things Using Folthert.
YOSHINO KEIICHI (1); YOKOI HIROKAZU (2)
(1) Kitakyushu Natl. Coll. of Technol.; (2) Kyushu Inst. of Technol.
Kyushu Kogyo Daigaku Kenkyu Hokoku. Kogaku(Bulletin of the Kyushu Institute of Technology. Science and Technology), 1995, NO.67, PAGE.47-52, FIG.9, REF.4
JOURNAL NUMBER: F0192AAN ISSN NO: 0453-0357 CODEN: KKDKA
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.51
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication
ABSTRACT: This paper presents a moving robot learning to avoid obstacle

things. **The robot is constructed by only a neuron element, ultrasonic sensors and a toy car. The sensor signals input to the neuron, and the neuron steerings the robot.** The robot corrects the controll value each time when it collisions to wall. The robot becames to pass through behind the walls. (author abst.)

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File  94:JICST-EPlus 1985-2002/Mar W3
File  96:FLUIDEX 1972-2002/Apr
File  99:Wilson Appl. Sci & Tech Abs 1983-2002/Apr
File 108:AEROSPACE DATABASE 1962-2002/APR
File 238:Abs. in New Tech & Eng. 1981-2002/Apr
File  35:Dissertation Abs Online 1861-2002/Apr
File  32:METADEX(R) 1966-2002/Jul B1
File 111:TGG Natl.Newspaper Index(SM) 1979-2002/May 09
File 583:Gale Group Globalbase(TM) 1986-2002/May 10
File   6:NTIS 1964-2002/May W3
File   8:Ei Compendex(R) 1970-2002/May W1
File  14:Mechanical Engineering Abs 1973-2002/May
File  34:SciSearch(R) Cited Ref Sci 1990-2002/May W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File  65:Inside Conferences 1993-2002/May W1
File  77:Conference Papers Index 1973-2002/Mar
Set     Items   Description
S1     351519   ULTRASO?
S2      94168   SUPERSONIC
S3      18640   TRANSCEIV?
S4       5414   TRANSMITTER?()RECEIVER?
S5      23509   TRANSMIT????(2N)RECEIV???
S6      23509   TOY OR TOYS
S7       2698   DOLL OR DOLLS
S8        158   PLAYTHING?
S9       7680   AMUSEMENT? ?
S10       186   STUFFED()ANIMAL? ?
S11    444994   S1:S2
S12     32989   S6:S10
S13        25   S11(S)S12
S14     40017   S3:S5
S15         0   S13(S)S14
S16   1900739   INTERACT?
S17   2084830   RESPON????
S18         1   S13(S)S16
S19         1   S13(S)S17
S20         2   S18 OR S19
S21         2   RD (unique items)
S22         0   S21/2002 OR S21/2001
S23         2   S21 NOT S22
S24         2   Sort S23/ALL/PD,D
S25        44   S11 AND S12
S26         0   S14 AND S25
S27         3   S16:S17 AND S25
S28         3   RD (unique items)
S29        41   S25 NOT S27
S30        40   RD (unique items)
S31         5   S30/2001 OR S30/2002
S32        35   S30 NOT S31
S33        35   Sort S32/ALL/PY,D
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27/26,TI,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

007016591
WPI Acc No: 1987-016588/198703
Starting device for motor of toy - receives and amplifies ultrasonic signal which is detected so as to switch transistor on and activate motor
...Abstract (Basic): used to drive a sound reproducing device having a recording disk is started by an **ultrasonic** wave signal from a transmitter (T) located at a distance from the toy . A receiving and starting circuit (R) is also built in the toy , and the **ultrasonic** wave signal from the transmitter (T) is received , amplified, and detected, and when the detected output reaches a predetermined level, a switching transistor...
...Q3) to continue the energisation of the motor (M) even when the transmission of the **ultrasonic** wave signal has been terminated...
...Abstract (Equivalent): A starting device for a motor for a toy comprising: a transmitter for generating an **ultrasonic** wave signal; and a receiving and starting circuit for reciving the **ultrasonic** wave signal from said transmitter and for starting said motor for the toy , said receiving and starting circuit including; a receiving transducer for receiving said **ultrasonic** wave signal; an amplifier section connected to said receiving transducer for amplifying the received signal...
...and a motor starting section connected to said detection section for energising said motor in response to the detected output signal, said motor starting section including: a switching transistor connected to said charging-discharging capacitor for supplying a driving current to said toy motor in response to the detected output signal; and a self-holding switch associated with said switching transistor for continuing the supply of driving current to said toy motor for a predetermined period of time.
...Abstract (Equivalent): The starting device comprises a transmitter external to the toy which generates an **ultrasonic** wave signal. A starting element is disposed within the toy for receiving the transmitted **ultrasonic** wave signal and starting the toy motor. The motor pref. drives a sound reproducing device...
...The **ultrasonic** wave signal from the transmitter is received , amplified, and detected, and when the detected output reaches a predetermined level, a switching transistor...
...switching transistor to supply continuous current to the motor even when the transmission of the **ultrasonic** wave signal has been terminated.

27/7/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014163590 **Image available**
WPI Acc No: 2001-647818/200174
Ultrasonic transmitting and receiving apparatus e.g. for actuating toys from remote control, has transmitter to generate ultrasonic signal based on which functions of pre-programmed receiver is actuable
Patent Assignee: KO S L (KOSL-I)
Inventor: KO S L

Number of Countries: 027 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20010008499	A1	20010719	US 2000483688	A	20000114	200174	B
			US 2000726979	A	20001130		
EP 1118971	A1	20010725	EP 2000311148	A	20001213	200174	

Priority Applications (No Type Date): US 2000726979 A 20001130; US 2000483688 A 20000114
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20010008499	A1		8	H04B-001/59	CIP of application US 2000483688
EP 1118971	A1	E		G08C-023/02	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): US 20010008499 A1

NOVELTY - The apparatus comprises a transmitter with a personal computer (PC) (10) and loudspeaker (18) to generate **ultrason**ics with a program. A receiver which includes a microphone (14) and a microprocessor decoder and controller (16), pre-programmed with functions is actuable in response to the received **ultrason**ics in response to a program.

USE - For remote actuation e.g. lighting, sound emission in toys e.g. toy dog, toy robot, etc., using **ultrason**ics .

ADVANTAGE - The transmitter can use even television or radio apparatus provided with a suitable loudspeaker capable of emitting necessary **ultrason**ics . Provides error-free transmission.

DESCRIPTION OF DRAWING(S) - The figure shows the **ultrason**ic transmitting and receiving apparatus with a speaker and microphone.

Personal computer (10)
Microphone (14)
Microprocessor decoder and controller (16)
Loudspeaker (18)
pp; 8 DwgNo 1a/3

Derwent Class: P36; T01; W04; W05
International Patent Class (Main): G08C-023/02; H04B-001/59
International Patent Class (Additional): A63H-030/04

27/7/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004688158
WPI Acc No: 1986-191500/198630
Portable electronic toy with **ultrason**ic or IR transmitter - has receiver responsive to transmitted signal from other such toy , which when energised activates alarm and deactivates local transmitter
Patent Assignee: SHORTALL J F (SHOR-I)
Inventor: SHORTALL J F
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2169995	A	19860723	GB 86678	A	19860113	198630	B

Priority Applications (No Type Date): GB 851975 A 19850125
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2169995	A		7		

Abstract (Basic): GB 2169995 A

The toy includes direct current supply a transmitter and the receiver . A short or medium range directional signal is transmitted in the ultrasonic or infrared frequency band. The receiver is responsive only to an ultrasonic or infrared signal transmitted from another such toy . An alarm circuit emits an audible and/or visible alarm signal responsive to the receiver . The transmitter temporarily deactivated using a time lag relay switch.

An **ultraso**nic signal is transmitted with a frequency of from 30 to 50 KHz having a range of up to 150 m. The receiver is located in such a manner that a transmitted signal from the toy itself does not activate the receiver. The receiver is a target for a transmitted signal from another such toy such that when activated, the receiver activates an alarm signal such as a flasher unit and/or a siren or the like.

USE - Such a toy may be adapted as toy gun, toy landmine, toy landmine detector, toy waistbelt and holster, toy helmet, toy chest armour plate. (7pp Dwg.No.1/4)

Derwent Class: Q79; W02; W04
International Patent Class (Additional): F41G-003/26; F41J-005/06

28/26,TI/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
013260344
WPI Acc No: 2000-432239/200038
Jackpot system for coin-operated amusement machine uses wireless connection between machines and jackpot system

28/26,TI/11 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2002 JPO & JAPIO. All rts. reserv.
00768208
AUTOMATIC RADIO GUIDING DEVICE OF BATTERY CAR

28/7/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
013805857 **Image available**
WPI Acc No: 2001-290069/200130
Robot such as industrial robot, determines position of sound generating device using detected phase difference between received sound signals, and generates moving control signal to movement unit, for moving robot
Patent Assignee: KIM I (KIMI-I); KIM I G (KIMI-I); KIM I K (KIMI-I)
Inventor: KIM I G; KIM I K; KIM I
Number of Countries: 092 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200063721	A1	20001026	WO 2000KR372	A	20000420	200130	B
AU 200041495	A	20001102	AU 200041495	A	20000420	200130	
KR 2000066728	A	20001115	KR 9914029	A	19990420	200130	
US 6308114	B1	20011023	WO 2000KR372	A	20000420	200165	
			US 2000719866	A	20001219		
KR 2001083059	A	20010831	KR 2000714529	A	20001220	200215	

Priority Applications (No Type Date): KR 9914029 A 19990420
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200063721	A1	E	116	G01S-015/36	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200041495 A G01S-015/36 Based on patent WO 200063721
KR 2000066728 A B25J-009/00
US 6308114 B1 G06F-019/00 Based on patent WO 200063721
KR 2001083059 A B25J-009/00

Abstract (Basic): WO 200063721 A1

NOVELTY - **A detector (118) detects a phase difference between sound signals of specific pattern, output from sound signal receiving unit (114). A microprocessor (127) determines the position of sound generating unit (111) using the phase difference, and generates a moving control signal. A movement unit (132) moves the robot to the position of the sound generating unit in response to the moving control signal.**

DETAILED DESCRIPTION - The robot has three or more receivers in a sound signal receiving unit (114) to receive the sound signal from the sound signal generating unit (111). The receivers are disposed in an equilateral triangle form. The phase difference detection unit (118) includes a sound pattern detection unit which receives an output signal of a first amplifying and filtering unit and a clock having a predetermined period and outputs a detection signal. A phase detection unit in response to the detection signal, receives output signals of the three amplifying and filtering units included in the phase difference detection unit and detects phase difference between each signal to output detected phase difference and interrupt signal. An INDEPENDENT CLAIM is also included for the robot operating method.

USE - For detecting the direction of a sound source and moving towards it, in various fields such as industrial robotics and toys .

ADVANTAGE - The robot has a movement control unit to control movement of the robot under the control of a microprocessor by using motors. Includes distance measurement unit, having an **ultrason**ic telemeter, a human body detection unit, and a remote control unit.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram illustrating the robot.

Sound signal generating unit (111)
Sound signal receiving unit (114)
Detector (118)
Microprocessor (127)
Movement unit (132)
pp; 116 DwgNo 1/30

Derwent Class: P62; T06; W04; W06; X25
International Patent Class (Main): B25J-009/00; G01S-015/36; G06F-019/00

28/7/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012447007 **Image available**
WPI Acc No: 1999-253115/199921
Parametric speaker in toy gun
Patent Assignee: AMERICAN TECHNOLOGY CORP (AMTE-N)
Inventor: NORRIS E G
Number of Countries: 001 Number of Patents: 001

Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 5885129 A 19990323 US 97826395 A 19970325 199921 B
Priority Applications (No Type Date): US 97826395 A 19970325
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 5885129 A 8 A63H-005/04
Abstract (Basic): US 5885129 A

NOVELTY - A modulator (50) coupled to **ultraso**nic generator (54) modulates the **ultraso**nic sound and produces two different sounds. An **ultraso**nic frequency emitter coupled to modulator propagates the generated **ultraso**nic frequencies and concurrently generates new sonic frequency based on interaction between **ultraso**nic frequencies with non-linear medium of air.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for pointing device.

USE - In toy gun.

ADVANTAGE - Real time effect is provided by equipping **ultraso**nic speaker for generating sounds of different frequencies. Soft projectile from barrel accompanied by some smoke provides reality in firing mode.

DESCRIPTION OF DRAWING(S) - The figure shows speaker and supporting circuitry.

Modulator (50)
Generator (54)
pp; 8 DwgNo 2/3
Derwent Class: P36; W04
International Patent Class (Main): A63H-005/04
International Patent Class (Additional): A63H-033/30

28/7/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012030080 **Image available**
WPI Acc No: 1998-446990/199838
Multiple speaker story telling system for young children - has blocks of data sent to remote units for broadcasting, units having unique identifying features and being covered by dolls representing characters in story
Patent Assignee: BRAUN O (BRAU-I); BRAUN S (BRAU-I); FRIEDMAN M M (FRIE-I)
Inventor: BRAUN S; BRAUN O
Number of Countries: 081 Number of Patents: 004
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 9834698 A2 19980813 WO 98US1861 A 19980202 199838 B
AU 9861394 A 19980826 AU 9861394 A 19980202 199902
US 5864626 A 19990126 US 97798407 A 19970207 199911
EP 974242 A2 20000126 EP 98906066 A 19980202 200010
WO 98US1861 A 19980202
Priority Applications (No Type Date): US 97798407 A 19970207
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
WO 9834698 A2 E 37 A63H-000/00
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE

IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW
EP 974242 A2 E H04R-005/00 Based on patent WO 9834698
Designated States (Regional): DE ES FR GB IT
AU 9861394 A A63H-005/00 Based on patent WO 9834698
US 5864626 A H04B-003/00
Abstract (Basic): WO 9834698 A

The system includes a data storage medium on which several blocks of audio data are stored. Each of the blocks of audio data is flagged with an identification code. A transmission mechanism transmits the blocks of audio data. At least one remote unit features a mechanism for receiving the transmitted blocks of audio data and broadcasting the blocks of audio data as audible sound. A selection mechanism selects one of the remote units to broadcast at least one of the blocks of audio data in accordance with the identification code.

The selection mechanism is operationally connected to the transmission mechanism. The selection mechanism is operationally connected and distributed among the remote units. The transmission mechanism is selected from the group consisting of radio, **ultraso**und and infrared.

ADVANTAGE - **Provides storytelling system in which story is narrated, at least in part, by talking dolls of less complexity and cost than previously.** Use of doll in story narration very easily captures attention of young listeners.

Dwg.1/14

Derwent Class: P36; W02; W04
International Patent Class (Main): A63H-000/00; A63H-005/00; H04B-003/00; H04R-005/00

28/7/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
004144058
WPI Acc No: 1984-289598/198447
Self-programming toy or game - has external movement proximity monitor, transmitting electric signal actuating preprogrammed toy etc. action
Patent Assignee: KLIR V GMBH (KLIR-N)
Inventor: KLIR V
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 3404260	A	19841115	DE 3404260	A	19840207	198447	B

Priority Applications (No Type Date): DE 3404260 A 19840207
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3404260	A		8		

Abstract (Basic): DE 3404260 A

The toy , such as a doll , an animal, or a mechanical game has an external movement monitor or a conductive system for itself or for its **control. On approach or a movement of a person, the monitor etc. transmits an electrical signal to a control part of the toy . The signal actuates a pref. preprogrammed function of the toy . The** movement monitor is pref. a microwave, an IR, an **ultraso**nic , or some other monitoring system.

The response range of the toy may be adjustable. The conductive system may comprise a guide for expensive toys in order to avoid obstacles. The monitoring system or the conductive system comprises an

electronic evaluation, enabling a coordination of the person's movements with those of the toy .
ADVANTAGE - Suitable for small children up to 3 years of age, as no mechanical switches are required.
0/4
Derwent Class: P36; W04
International Patent Class (Additional): A63H-030/02

28/7/10 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

04934881 **Image available**
AMUSEMENT VEHICLE
PUB. NO.: 07-227481 [JP 7227481 A]
PUBLISHED: August 29, 1995 (19950829)
INVENTOR(s): NAKAJIMA TAKEHISA
ICHIKAWA KAZUFUMI
APPLICANT(s): SUZUKA SAAKIT RAND KK [365549] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-044755 [JP 9444755]
FILED: February 21, 1994 (19940221)
ABSTRACT
PURPOSE: To provide an amusement vehicle for sensing the feeling of race drive or thrill by controlling the maximum speed of revolution of an engine to accelerate/decelerate it when a microcomputer decides that a distance to a preceding or following car is continued for fixed time.
CONSTITUTION: A go-cart A is provided with an engine 2 for controlling the speed of revolution corresponding to the stepping operation of an accelerator pedal 1 and on the other hand, the speed of revolution of the engine 2 can be controlled through a lev-limiter 3 corresponding to a control signal from a microcomputer 4. As transmitters / receivers , slip stream sensors 6A and 6B are installed at the front and rear parts of a car body 5, a touch sensor 7 is installed at a front bumper, and at the microcomputer 4 to input their output signals, the distances to preceding and following vehicles A(sub 1) and A(sub 2) are measured. Then, it is decided whether distance information is continued for the fixed time or not and at the time of YES decision, the speed of revolution of the engine 2 is controlled to be accelerated/decelerated.

32/TI/2 (Item 2 from file: 350)
DIALOG(R)File 350:
Toy cleansing machine

32/TI/5 (Item 5 from file: 350)
DIALOG(R)File 350:
Remote controlled toy in point-of-sale package

32/TI/9 (Item 9 from file: 350)
DIALOG(R)File 350:
Three-dimensional positional data generating system for representing moving object e.g. person, animal or doll - measures propagation times from instant of transmission of **ultrason**ic waves to reception of **ultrason**ic waves and computes positional data on basis of measured propagation times

32/TI/10 (Item 10 from file: 350)
DIALOG(R)File 350:

Ultrasonic electronic instructional toy dealing with mathematics concepts - comprises parallel interface, programmable peripheral circuit, and infra red emitter assembly NoAbstract

32/TI/12 (Item 12 from file: 350)
DIALOG(R)File 350:(c) 2002 Thomson Derwent. All rts. reserv.
Remote sensing electronic sleep aid - uses light, sound and **ultrason**ic waves and is suitable for installation into lamps, decorative features and toys NoAbstract

32/TI/17 (Item 17 from file: 350)
DIALOG(R)File 350:(c) 2002 Thomson Derwent. All rts. reserv.
Hollow, floating, upright toy figure - has hemispherical weighted base and plastics base and cap

32/TI/20 (Item 20 from file: 347)
DIALOG(R)File 347:(c) 2002 JPO & JAPIO. All rts. reserv.
PACHINKO MACHINE

32/7/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012929948 **Image available**
WPI Acc No: 2000-101795/200009
Moving toy e.g. motor vehicle, railway vehicle, ship, animal
Patent Assignee: SEGA ENTERPRISES KK (SEGA-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11342275	A	19991214	JP 98151780	A	19980601	200009	B

Priority Applications (No Type Date): JP 98151780 A 19980601
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11342275	A		6	A63H-029/22	

Abstract (Basic): JP 11342275 A
NOVELTY - An **ultrason**ic linear motor unit (2) is mounted at the bottom of the main body (1) of a e.g. toy bus (0).
USE - None given.
ADVANTAGE - Enables main body of toy to contact the floor without using wheels, thus weight reduction is attained. Ensures long-period driving of toy, and simplifies transit structure of toy.
DESCRIPTION OF DRAWING(S) - The figure shows the perspective diagram of a toy bus. Toy bus (0), Main body (1), **Ultrason**ic linear motor unit (2).
Dwg.1/14
Derwent Class: P36; V06
International Patent Class (Main): A63H-029/22
International Patent Class (Additional): A63H-017/00; A63H-017/26; A63H-018/02; A63H-018/12; H02N-002/00

32/7/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012555691 **Image available**
WPI Acc No: 1999-361797/199931
Ornamental clock - drives doll intermittently using ultrasonic motor,

based on drive aspect which is variable with desired time
Patent Assignee: SEIKO CLOCK KK (SEIK-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11133905	A	19990521	JP 97298142	A	19971030	199931	B

Priority Applications (No Type Date): JP 97298142 A 19971030
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11133905	A		6	G09F-023/16	

Abstract (Basic): JP 11133905 A

NOVELTY - **Intermittent drive of a doll (5) is performed by an ultrasonic motor. The doll is driven, based on drive aspect which is variable with desired time.**

USE - Is used as clock at home.

ADVANTAGE - Vision advertized to user is improved as decoration is improved. The doll dancing on melody will be smooth and natural, thereby improving ornament effect. Since **ultraso**nic motor is used for driving the doll , power consumption can be reduced. The driving mechanism of doll can be made soft, thereby enables extending freedom on design. DESCRIPTION OF DRAWING(S) - The figure shows the explanatory diagram of the ornamental clock. (5) Doll .

Dwg.1/2

Derwent Class: P36; P85; S04; V06
International Patent Class (Main): G09F-023/16
International Patent Class (Additional): A63H-013/20; G04B-021/08; G04B-045/00; H02N-002/00

32/7/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012057379 **Image available**
WPI Acc No: 1998-474290/199841
Ultrasonic motor for displays, toys, stationery - has protrusion provided along node diameter direction in vibrational object joined to piezoelectric element, by which rotator is stably rotated in desired direction
Patent Assignee: LION DENSHI KK (LION-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 10201260	A	19980731	JP 96356546	A	19961227	199841	B

Priority Applications (No Type Date): JP 96356546 A 19961227
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10201260	A		6	H02N-002/00	

Abstract (Basic): JP 10201260 A

The motor has an annular ring like vibrational object (2) joined to a piezoelectric element (3). Several electrodes are provided in the piezoelectric element in order to perform curvature movement of the vibrational object such that its node diameter (a,b,c) becomes two or more.

The vibrational object has a protrusion (21) provided along the node diameter direction. A support pipe (22) is provided in the internal circumference border (2c) of the vibrational object. A rotator (5) is rotated in a desired direction by the protrusion.

ADVANTAGE - Offers simple mounting. Suppresses electrode wiring loitering. Improves appearance.

Dwg.1/5
Derwent Class: V06; W04
International Patent Class (Main): H02N-002/00

32/7/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
008936975 **Image available**
WPI Acc No: 1992-064244/199208
Dual sound toy train set - with ultrasonic microphone supported on train engine, coupled to drive motor control unit
Patent Assignee: MATTEL INC (MATV)
Inventor: ENGEL R W; FRANKE J W; PIYEVSKY A R; UNALP E J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5085610	A	19920204				199208	B

Priority Applications (No Type Date): US 91700834 A 19910516
Abstract (Basic): US 5085610 A

The dual sound toy train set includes a toy track formed in a continuous loop and having guiding rails on either side. An electrically powered toy train engine is coupled to the track and includes an internal battery power source, an electric drive motor and a motor control unit. **An ultrasonic microphone is supported upon the toy train engine and operatively coupled to the motor control unit.** A sound unit includes a housing supporting a pair of air bellows having one way inlet valves attached.

A movable pump handle is operative to collapse the air bellows and produce pressurized air streams which are coupled by hollow tubes to an ultrasound whistle and an audible sound whistle. The audible sound whistle produces exciting play sounds similar to those produced by conventional loco-motives. The ultrasonic energy produced by the ultrasound whistle is received by the microphone on the toy train engine and is used to alternately energise and deenergise the electric drive of the toy train to start and stop the toy train.

USE - Powered child's toy running on a track.

Dwg.4/5
Derwent Class: P36; S06; W04
International Patent Class (Additional): A63H-019/10; A63H-030/00

32/7/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
007556883
WPI Acc No: 1988-190815/198828
Ultrasonic or infrared light-controlled toy robot - consists of moving assembly avoiding obstacles through early detection NoAbstract
Patent Assignee: CARNEIRO L T (CARN-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
BR 8605475	A	19880607				198828	B

Priority Applications (No Type Date): BR 865475 A 19861105
Derwent Class: P36; W04; W05
International Patent Class (Additional): A63H-033/26

32/7/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
004279712
WPI Acc No: 1985-106590/198518
Remote control toy vehicle - has controls situated in vehicle and also on external override console
Patent Assignee: VERWEY C J (VERW-I)
Inventor: VERWEY C J
Number of Countries: 004 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 139521	A	19850502	EP 84307099	A	19841017	198518	B

Priority Applications (No Type Date): ZA 837768 A 19831019
Cited Patents: No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 139521	A	E	7		

Designated States (Regional): FR GB IT SE
Abstract (Basic): EP 139521 A
The remote controlled passenger-carrying vehicle has a wheeled chassis and a power train to drive the vehicle. A control wheel for the vehicle regulates the speed and direction of travel of the vehicle. A control panel remote from the vehicle activates or overrides the vehicle control when desired by an operator external to the vehicle.
The remote control can be via cable or radio **ultraso**nic or laser emission. The vehicle can be used as a toy , being of similar dimensions to a pedal car, but powdered by an electric motor.
USE/ADVANTAGE - Vehicle can be controlled externally without exertion by controller; for children who are too young and/or handicapped to control vehicle.
0/0
Derwent Class: P36; W04
International Patent Class (Additional): A63H-017/00; A63H-030/00

32/7/15 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
001975936
WPI Acc No: 1978-002410/197833
Supersonic remote control for toys
Patent Assignee: DALL'AGLIO A (DALL-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
IT 1024138	B	19780620				197833	B

Priority Applications (No Type Date): IT 7446870 A 19741023
Derwent Class: P36
International Patent Class (Additional): A63H-000/00

32/7/19 (Item 19 from file: 344)
DIALOG(R)File 344:CHINESE PATENTS ABS
(c) 2002 EUROPEAN PATENT OFFICE. All rts. reserv.
1104404
STARTING DEVICE OF MOTOR FOR TOY USING **ULTRASO**NIC WAVE
Patent Assignee: OZEN CORP (JP)

Author (Inventor): EIKAZU OIKE (JP)
Number of Patents: 004
Patent Family:

CC	Number	Kind	Date	
CN	86104404	A	861224	(Basic)
GB	8615939	A0	860806	
GB	2177527	A1	870121	
US	4701681	A	871020	

Application Data:

CC	Number	Kind	Date
*JP	99792	A	850628
CN	86104404	A	860627

32/7/22 (Item 22 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2002 JPO & JAPIO. All rts. reserv.
04043474 **Image available**
EDUCATIONAL TOY
PUB. NO.: 05-035174 [JP 5035174 A]
PUBLISHED: February 12, 1993 (19930212)
INVENTOR(s): MIFUNE SHUJI
KOAMI TAKESHI
IBARA SHIGEKI
HAMAGUCHI SHIGEO
APPLICANT(s): OSAKA KIDEN KK [358675] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-190147 [JP 91190147]
FILED: July 30, 1991 (19910730)

ABSTRACT

PURPOSE: To obtain computer educational equipment which enables a beginner to suitably be familiar with computers at play.
CONSTITUTION: This toy consists of an **ultrason**ic wave transmission part A composed of an **ultrason**ic wave oscillator 1 and an **ultrason**ic wave transmitting circuit 2 which emit an **ultrason**ic wave to a target, an **ultrason**ic wave reception part B consisting **ultrason**ic wave receivers 3 and 4 and an **ultrason**ic wave receiving circuit 5 which detect a reflected **ultrason**ic wave and measures its direction and distance, a central arithmetic processing part C which sends out a command signal with detection signals from the **ultrason**ic wave receivers 3 and 4 according to a specific program, a driving part D which places the target in specific operation according to the command signal of the central arithmetic processing part C, a detection part E which detects deviation from an operation area, and a display part F. This toy can be connected to a personal computer.

32/7/23 (Item 23 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2002 JPO & JAPIO. All rts. reserv.
00014552
WIRELESS TOY WITH A PRONOUNCING DEVICE
PUB. NO.: 51-125552 [JP 51125552 A]
PUBLISHED: November 02, 1976 (19761102)
INVENTOR(s): HATTORI TAKESHI
APPLICANT(s): NIKKO KK [420770] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 50-049416 [JP 7549416]

FILED: April 23, 1975 (19750423)

ABSTRACT

PURPOSE: Relays are turned on and off by the presence or absence of the voice signals including **ultraso**nic waves for operating the toy motor.

File 350:Derwent WPIX 1963-2001/UD,UM &UP=200229
File 344:CHINESE PATENTS ABS APR 1985-2002/MAR
File 347:JAPIO Oct/1976-2001/Dec(Updated 020503)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	171250	**ULTRASO?**
S2	8709	**SUPERSONIC**
S3	22649	TRANSCEIV?
S4	12691	TRANSMITTER?()RECEIVER?
S5	100463	TRANSMIT????(2N)RECEIV???
S6	22997	TOY OR TOYS
S7	4192	DOLL OR DOLLS
S8	229	PLAYTHING?
S9	6798	AMUSEMENT? ?
S10	146	STUFFED()ANIMAL? ?
S11	177104	S1:S2
S12	32418	S6:S10
S13	34	S11(S)S12
S14	118504	S3:S5
S15	4	S13(S)S14
S16	124073	INTERACT?
S17	477343	RESPON????
S18	0	S13(S)S16
S19	2	S13(S)S17
S20	2	S18 OR S19
S21	0	S21/2002 OR S21/2001
S22	0	S21 NOT S22
S23	472	IC='A63H-003/28'
S24	86	S11 AND S12
S25	8	S14 AND S24
S26	11	S24 AND S16:S17
S27	**4**	**S25 AND S26**
S28	**11**	**S25:S26 NOT S27**
S29	0	S23 AND S24
S30	26	S13 NOT S27:S28
S31	26	IDPAT (sorted in duplicate/non-duplicate order)
S32	**23**	**IDPAT (primary/non-duplicate records only)**

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25/TI/2 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
NETWORKED TOYS

25/TI/4 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
A METHOD TO USE ACOUSTIC SIGNALS FOR COMPUTER COMMUNICATIONS

25/TI/11 (Item 11 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
APPARATUS FOR CONTROLLING A TELEVISION RECEIVER OR THE LIKE

25/TI/12 (Item 12 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
APPARATUS FOR CONTROLLING A TELEVISION RECEIVER OR THE LIKE

25/3,AB/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
01305640
Transmitting and receiving apparatus of ultrasonic waves
Sende- und Empfangseinrichtung von Ultraschallwellen
Appareil de transmission et de reception d'ondes **ultrason**ores
PATENT ASSIGNEE:
Ko, Siu Ling, (3203970), Peninsula Centre, Room 819, 67 Mody Road, TsimSha Tsui East, Kowloon, (CN), (Applicant designated States: all)
INVENTOR:
Ko, Siu Ling, Peninsula Centre, Room 819, 67 Mody Road, TsimSha Tsui East, Kowloon, (CN)
LEGAL REPRESENTATIVE:
Nettleton, John Victor et al (34281), Abel & Imray 20 Red Lion Street, London WC1R 4PQ, (GB)
PATENT (CC, No, Kind, Date): EP 1118971 A1 010725 (Basic)
APPLICATION (CC, No, Date): EP 2000311148 001213;
PRIORITY (CC, No, Date): US 483688 000114
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G08C-023/02; A63H-030/04
ABSTRACT EP 1118971 A1
Ultrasonic transmitting and receiving apparatus comprises a transmitter operable in response to a program to emit an **ultrason**ic signal and a receiver preprogrammed with a plurality of functions actuable in response to a said **ultrason**ic signal from the transmitter. **The transmitter may comprise a PC 10 with a loudspeaker 18 and the receiver may comprise a stuffed toy 12 housing a microphone 14 and a microprocessor decoder and controller 16. Decoded signals may actuable motion, visual and audio functions of the toy .**
ABSTRACT WORD COUNT: 83
NOTE: Figure number on first page: 2A
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200130	501
SPEC A	(English)	200130	1470
Total word count - document A			1971
Total word count - document B			0
Total word count - documents A + B			1971

25/3,AB/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00551943
INTERACTIVE TOYS
JOUETS INTERACTIFS
Patent Applicant/Assignee:
COMSENSE TECHNOLOGIES LTD,

ATSMON Alon,
ANTEBI Amit,
COHEN Moshe,
SHIMONI Sharon,
Inventor(s):
ATSMON Alon,
ANTEBI Amit,
COHEN Moshe,
SHIMONI Sharon,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200015316 A2 20000323 (WO 0015316)
Application: WO 99IL506 19990916 (PCT/WO IL9900506)
Priority Application: WO 98IL450 19980916; IL 126444 19981002; IL 127072 19981116; IL 127569 19981214
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 8330
English Abstract
A plurality of individual toys (20, 22), at least a first one (20) of which generates acoustic signals (24) and at least a second one (22) of which receives acoustic signals. When the second toy (22) receives acoustic signals from the first toy (20), it responds (26, 28), for example, by generating a sound and/or controlling its motion. In a preferred embodiment of the invention, the toys flock and/or form a procession of toys which follow a leader toy, for example a mother goose and a plurality of following and preferably quacking goslings.

25/3,AB/7 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00547296
DOLL WITH MINIATURE TOY PAGER RESPONSIVE TO A CHILD-SIZED TOY PAGER
POUPEE EQUIPEE D'UN TELEAVERTISSEUR JOUET MINIATURE REAGISSANT A UN AUTRE TELEAVERTISSEUR JOUET AUX DIMENSIONS CONVENANT A UN ENFANT
Patent Applicant/Assignee:
MATTEL INC,
Inventor(s):
WITTENBERG Mark,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200010669 A1 20000302 (WO 0010669)
Application: WO 99US16529 19990721 (PCT/WO US9916529)
Priority Application: US 98137462 19980820
Designated States: AU BR CA MX AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 4519
English Abstract
A doll (10) includes a hollow torso (11) within which an electronic circuit (17) having a conventional sound circuit and speaker (19) supported thereon is operatively coupled to a sound sensor (18). The doll further includes a simulated doll pager (20) which is worn externally by

the doll (10) and coupled internally to the circuit (17). A child-sized toy pager (30) includes a housing (31) supporting a light emitting diode (31) and a speaker grille (37). The housing (31) further supports a push button (32) operable to energize sound-producing circuitry within the housing to generate sound signals which are coupled to a speaker thereby transmitting sound energy (36). The sound energy is detected by the sound sensor (18) within the doll (10) causing the sensor to activate the sound-producing circuit within the doll and mimic the appearance of actuation of the doll pager (20).

25/3,AB/8 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00472197
TOY WITH REMOTELY CONTROLLED SECURITY ALARM
JOUET A ALARME DE SECURITE TELECOMMANDEE
Patent Applicant/Assignee:
TOYMAX INC,
Inventor(s):
JAVARS Russel,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9903549 A1 19990128
Application: WO 98US14464 19980709 (PCT/WO US9814464)
Priority Application: US 97892374 19970714
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 3414
English Abstract
A security alarm device (12, fig. 2) is replicated in a toy vehicle (10). The security alarm device (12) includes a remote control (30) which can also control vehicle functions. The remote control (30) may control alarm arm and disarm, alarm and vehicle sounds, such as arm, disarm, alarm set off, engine reversing and tire (14) screeching; motor drive; and vehicle lights (22). The security alarm device (12) includes an LED (26) which indicates whether the alarm is armed or unarmed, and a motion sensor (50) which sets the arm off (e.g., emitting a siren sound) when the toy vehicle (10) is moved in its armed state.

25/3,AB/10 (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00224750
APPARATUS FOR DETECTING AND TRACKING AN OBJECT
APPAREIL SERVANT A DETECTER ET A SUIVRE UN OBJET
Patent Applicant/Assignee:
PRINEPPI Frank Joseph,
Inventor(s):
PRINEPPI Frank Joseph,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9221992 A1 19921210
Application: WO 92AU257 19920604 (PCT/WO AU9200257)

Priority Application: GB 9112260 19910607
Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CI CM CS DE DE DK DK ES ES FI FR GA GB GB GN GR HU IT JP KP KR LK LU LU MC MG ML MN MR MW NL NL NO PL RO RU SD SE SE SN TD TG US
Publication Language: English
Fulltext Word Count: 5529
English Abstract

Apparatus for detecting an object within a certain spacial area and for tracking it as the object moves. This is achieved by emitting a signal such as electro-magnetic radiation or **ultraso**und and by detecting the amount reflected back at two different points. By comparing the amount detected at each point it is possible to ascertain the direction of an object, point the detector at it and follow it if it moves. This can be used in the eyes of a doll, or in a toy weapons system, following someone around a room.

File 348:EUROPEAN PATENTS 1978-2002/May W01
File 349:PCT FULLTEXT 1983-2002/UB=20020502,UT=20020425

Set	Items	Description
S1	49849	**ULTRASO**?
S2	2591	**SUPERSONIC**
S3	19337	TRANSCEIV?
S4	6642	TRANSMITTER?()RECEIVER?
S5	63257	TRANSMIT????(2N)RECEIV???
S6	6047	TOY OR TOYS
S7	1432	DOLL OR DOLLS
S8	136	PLAYTHING?
S9	1939	AMUSEMENT? ?
S10	106	STUFFED()ANIMAL? ?
S11	52053	S1:S2
S12	8596	S6:S10
S13	55	S11(S)S12
S14	70755	S3:S5
S15	5	S13(S)S14
S16	165402	INTERACT?
S17	327231	RESPON????
S18	4	S13(S)S16
S19	9	S13(S)S17
S20	10	S18 OR S19
S21	0	S21/2002 OR S21/2001
S22	0	S21 NOT S22
S23	12	S15 OR S18 OR S19
S24	12	IDPAT (sorted in duplicate/non-duplicate order)
S25	**12**	**IDPAT (primary/non-duplicate records only)**

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12/7/1 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

01591785
Toys to play with television.
NEW SCIENTIST March 12, 1987 p. 261

Mattel and Axlon will introduce toys controllable by TV signals. The toys and TV set will team up to make a kind of video game. The Captain Power toys from Mattel will include jet fighters that can score points when they hit

targets on the TV screen. On-screen jets fly directly at the viewer and children lose points when they are hit by the enemy. If their score drops to zero, the jet ejects its cockpit. The Captain Power TV show will include live action and computer animation. Mattel will also sell 'battle and training' video tapes, so the children can practice. The toys and the TV show will be aimed at boys 7-12 years oldP Axlon will market a more complex toy, described as a 3D video gaming system. It has 2 consoles that each control up to 8 tiny robots. A child can operate each console, or **1 console can be operated by ultrasonic signals from a cartoon series 'Tech Force and the Motomonsters.' Ultrasonic signals from the TV control the consoles, which in turn control each robot by radio**. The robots fire infrared beams, which disable the enemy robots for 10 sec. A basic Tech Force system will cost $250.

17/3,AB,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2002 The Gale Group. All rts. reserv.
07902379 Supplier Number: 65573912
They're playing my tune.(sound beams precisely transmit sound)
Lawton, Graham
New Scientist, v167, n2255, p38
Sept 9, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Academic
Word Count: 2741
JOE POMPEI bends down and picks up his favourite toy . It's a thin black disc about half a metre across which he holds in...
...Then he tilts the disc away and the sound blips out of existence.
Pompei's toy is a new audio technology that can fire thin beams of sound with the precision...
...glass are his favourite combination.
But the sound beam is much more than just a plaything . It promises to be the first significant development in audio technology since the moving coil now known as Berktay's equation. What he found was that water distorts ultrasound signals in a complex but mathematically predictable way...

17/3,AB,K/5 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2002 The Gale Group. All rts. reserv.
11197695 SUPPLIER NUMBER: 55164948 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Ultrasonic range finder uses few components.
Herrington, Daniel R.
EDN, 44, 13, 114
June 24, 1999
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 935 LINE COUNT: 00078
Measuring distance with ultrasonic signals requires a transmitting ultrasonic transducer; a medium, such as air or water; a reflecting surface or object; a receiving...
...timers in mode. You can control hobby servos that you commonly find in radio-controlled toys with a 1- to 2-msec-wide positive pulse every 20 msec...

17/3,AB,K/9 (Item 9 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2002 The Gale group. All rts. reserv.
02512075 SUPPLIER NUMBER: 03291611 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Robot junkies. (Homebrew Robotics Club of Palo Alto, California)

Wingerson, Lois
Science'84, v5, p56(8)
June, 1984
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3651 LINE COUNT: 00271
TEXT:
In the conference room Al Marconett is on his knees like a boy with a toy truck, fussing over a small metal box on lawn mower wheels. The box is linked...
... mentioning. And never mind that for a thousand dollars or two anyone can buy sophisticated toys called Topo II and Hero 1 and RB5X already eqipped with a few rudimentary skills...
...throw a switch and have something move left or right. It's a big shiny toy . I don't know that to a lot of them it matters that they accomplish... scan--rotate to decide how large the room is." Hobbit will do that by **bouncing ultrasonic signals off the walls.**
Hobbit already possesses the same Polaroid ultrasonic sensor Prather intends to build...

File 9:Business & Industry(R) Jul/1994-2002/May 09
File 16:Gale Group PROMT(R) 1990-2002/May 09
File 47:Gale Group Magazine DB(TM) 1959-2002/May 10
File 80:TGG Aerospace/Def.Mkts(R) 1986-2002/May 09
File 141:Readers Guide 1983-2002/Apr
File 148:Gale Group Trade & Industry DB 1976-2002/May 10
File 160:Gale Group PROMT(R) 1972-1989
File 481:DELPHES Eur Bus 95-2002/Apr W4
File 482:Newsweek 2000-2002/May 09
File 484:Periodical Abs Plustext 1986-2002/May W2
File 621:Gale Group New Prod.Annou.(R) 1985-2002/May 09
File 635:Business Dateline(R) 1985-2002/May 10
File 636:Gale Group Newsletter DB(TM) 1987-2002/May 09
File 646:Consumer Reports 1982-2002/Apr
File 610:Business Wire 1999-2002/May 10
File 613:PR Newswire 1999-2002/May 10
File 810:Business Wire 1986-1999/Feb 28
File 813:PR Newswire 1987-1999/Apr 30
File 609:Bridge World Markets 2000-2001/Oct 01
File 649:Gale Group Newswire ASAP(TM) 2002/May 09
File 112:UBM Industry News 1998-2002/May 09
File 20:Dialog Global Reporter 1997-2002/May 10

Set	Items	Description
S1	123671	ULTRASO? OR SUPERSONIC
S2	477612	TOY OR TOYS
S3	8831	PLAYTHING?
S4	245958	AMUSEMENT?
S5	98587	DOLL OR DOLLS
S6	10928	STUFFED()ANIMAL? ?
S7	1466742	SIGNAL?
S8	1924991	MESSAG????
S9	6181980	SIGN????
S10	781778	S2:S6
S11	1455	S1(3N)S7:S9
S12	**1**	**S10(S)S11**
S13	10	S10 AND S11
S14	10	RD (unique items)

S15 9 S14 NOT S12
S16 0 S15/2002 OR S15/2001
S17 9 Sort S15/ALL/PD,D
****

12/26,TI/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013020274
WPI Acc No: 2000-192125/200017
Super directivity speaker apparatus in exhibition hall, amusement plant, has ultrasonic and broad area speakers to transmit audio and amplified modulated signals along different directions as acoustic oscillation

12/26,TI/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008837927
WPI Acc No: 1991-341943/199147
Hand-held controller for three axis control - incorporates rotational detectors on each axis to detect rotation of controller and produce subsequent control signals

12/26,TI/7 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

05891643
PACHINKO MACHINE

12/7/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013167331 **Image available**
WPI Acc No: 2000-339204/200029
Acoustic signal using method for computer network components involves sending ultrasonic acoustic signal encoded with information to computer with audible sound receiving and generating sub-system
Patent Assignee: COMSENSE TECHNOLOGIES LTD (COMS-N)
Inventor: ALTMAN N; ANTEBI A; ATSMON A; COHEN M; LEV Z
Number of Countries: 090 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200021203	A1	20000413	WO 99IL521	A	19991001	200029	B
AU 9959968	A	20000426	AU 9959968	A	19991001	200036	
EP 1121763	A1	20010808	EP 99970221	A	19991001	200146	
			WO 99IL521	A	19991001		

Priority Applications (No Type Date): WO 99IL506 A 19990916; IL 126444 A 19981002; IL 127072 A 19981116; IL 127569 A 19981214; US 99115231 P 19990108; US 99122687 P 19990303; US 99143220 P 19990709; US 99145342 P 19990723; WO 99IL470 A 19990827; US 99153858 P 19990914
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200021203	A1	E	62	H04B-001/06	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW
AU 9959968 A H04B-001/06 Based on patent WO 200021203
EP 1121763 A1 E H04B-001/06 Based on patent WO 200021203
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI
Abstract (Basic): WO 200021203 A1

NOVELTY - An ultrasonic acoustic signal encoded with information is sent to a computer (20) with an audible sound receiving and generating sub-system having a microphone (26).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) smart card terminal creating method;
(b) electromagnetic radiation detecting method;
(c) microphone emulating method;
(d) coupler for audio channel;
(e) computer networking method;
(f) acoustic signal analyzing method;
(g) pulse time of flight determining method

USE - For computer network components, electronic home appliances such as desktop, laptop computers, televisions, watches, personal digital assistant, organizers, **electronic toys** , electronic games, voice responsive appliances, wireless communication devices, answering machines and desktop telephones, electronic wallets.

ADVANTAGE - Allows electronic devices to communicate using input and output acoustic channels designed for communication with human users. Allows usage of smart card to be read by and written to, using standard computer hardware without requiring an installation of specialized hardware.

DESCRIPTION OF DRAWING(S) - The figure shows schematic illustration of computer and electronic device which communicate using sound waves.

Computer (20)
Microphone (26)
pp; 62 DwgNo 1/7

Derwent Class: T01; T04; W01; W02; W05
International Patent Class (Main): H04B-001/06
International Patent Class (Additional): G08B-001/08; G08B-013/14; H04B-005/06; H04L-009/00

File 350:Derwent WPIX 1963-2001/UD,UM &UP=200229
File 344:CHINESE PATENTS ABS APR 1985-2002/MAR
File 347:JAPIO Oct/1976-2001/Dec(Updated 020503)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	177104	ULTRASO? OR SUPERSONIC
S2	22997	TOY OR TOYS
S3	229	PLAYTHING?
S4	6801	AMUSEMENT?
S5	4192	DOLL OR DOLLS
S6	146	STUFFED()ANIMAL? ?
S7	2075385	SIGNAL?
S8	87322	MESSAG????
S9	2103228	SIGN????
S10	32421	S2:S6

S11 8815 S1(3N)S7:S9
S12 9 S10 AND S11
****

16/TI/3 (Item 3 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
METHOD FOR USING A TOY TO CONDUCT SALES

16/TI/7 (Item 7 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
PERSONAL COMMUNICATOR AUTHENTICATION

16/TI/8 (Item 8 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
A METHOD TO USE ACOUSTIC SIGNALS FOR COMPUTER COMMUNICATIONS

16/TI/9 (Item 9 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
CARD FOR INTERACTION WITH A COMPUTER

16/TI/14 (Item 14 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
APPARATUS AND METHODS FOR CONTROLLING HOUSEHOLD APPLIANCES

16/TI/16 (Item 16 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
MULTI-SPEAKER STORYTELLING SYSTEM

16/TI/18 (Item 18 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
MULTI-IMAGE COMPOSITING

16/TI/19 (Item 19 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
APPARATUS FOR CONTROLLING A TELEVISION RECEIVER OR THE LIKE

16/TI/20 (Item 20 from file: 349)
DIALOG(R)File 349:(c) 2002 WIPO/Univentio. All rts. reserv.
APPARATUS FOR CONTROLLING A TELEVISION RECEIVER OR THE LIKE

16/3,AB/1 (Item 1 from file: 348) a duplicate of 25/3,AB/1, page 21
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
01305640
Transmitting and receiving apparatus of ultrasonic waves
Sende- und Empfangseinrichtung von Ultraschallwellen
Appareil de transmission et de reception d'ondes ultrasonores
PATENT ASSIGNEE:
Ko, Siu Ling, (3203970), Peninsula Centre, Room 819, 67 Mody Road, TsimSha Tsui East, Kowloon, (CN), (Applicant designated States: all)
INVENTOR:
Ko, Siu Ling, Peninsula Centre, Room 819, 67 Mody Road, TsimSha Tsui East, Kowloon, (CN)
LEGAL REPRESENTATIVE:
Nettleton, John Victor et al (34281), Abel & Imray 20 Red Lion Street,

London WC1R 4PQ, (GB)
PATENT (CC, No, Kind, Date): EP 1118971 A1 010725 (Basic)
APPLICATION (CC, No, Date): EP 2000311148 001213;
PRIORITY (CC, No, Date): US 483688 000114
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G08C-023/02; A63H-030/04
ABSTRACT EP 1118971 A1

Ultrasonic transmitting and receiving apparatus comprises a transmitter operable in response to a program to emit an ultrasonic signal and a receiver preprogrammed with a plurality of functions actuable in response to a said ultrasonic signal from the transmitter. The transmitter may comprise a PC 10 with a loudspeaker 18 and the receiver may comprise a stuffed toy 12 housing a microphone 14 and a microprocessor decoder and controller 16. Decoded signals may actuable motion, visual and audio functions of the toy .

ABSTRACT WORD COUNT: 83
NOTE: Figure number on first page: 2A
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200130	501
SPEC A	(English)	200130	1470
Total word count - document A			1971
Total word count - document B			0
Total word count - documents A + B			1971

16/3,AB/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00742579
Vehicle toy mounting projectile launching mechanism
An Spielfahrzeuge montierte Projektilabschusseinrichtung
Mecanisme de lancement de projectiles monte sur vehicule jouet
PATENT ASSIGNEE:
Tyco Industries, Inc., (1799281), 6000 Midlantic Drive, Mount Laurel, New Jersey 08052, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL)
INVENTOR:
Suto, Shohei, 23-17, Higashi-Yotsugi 1-chome Katsushika-ku, Tokyo, (JP)
Jaffe, Jonathan Adam, 7 Lexton Run, Voorhes, New Jersey 08043, (US)
LEGAL REPRESENTATIVE:
Keltie, David Arthur et al (32532), DAVID KELTIE ASSOCIATES, Audrey House, Ely Place, London EC1N 6SN, (GB)
PATENT (CC, No, Kind, Date): EP 700703 A2 960313 (Basic)
EP 700703 A3 961211
APPLICATION (CC, No, Date): EP 95306152 950904;
PRIORITY (CC, No, Date): JP 94301323 940911
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL
INTERNATIONAL PATENT CLASS: A63H-017/00; A63H-033/00;
ABSTRACT EP 700703 A3

The toy 10 shows much originality in operation without using a complex circuit, is improved in flight range by using a simple and low-cost mechanism, permits a user to play with it safely, and comprises: a structure 15 mounted on the toy 10 and capable of moving from a first

position to a second position so as to form in outline a part of a body 12 of the toy 10 in the first position and pop out of the body 12 in the second position; a popping-out mechanism by which the structure 15 is moved from the first position to the second position so as to pop out of the body 12; a launching platform 48 having the launching mechanism which is provided in the structure 15 so as to be housed in the body 12 in the first position and appear in sight in its launching position when the structure 15 is in the second position; and, a launching control means for controlling the launching mechanism. (see image in original document)

ABSTRACT WORD COUNT: 198
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	920
SPEC A	(English)	EPAB96	6727
Total word count - document A			7647
Total word count - document B			0
Total word count - documents A + B			7647

16/3,AB/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00868440
INTERACTING TOYS
JOUETS A INTERACTION
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Patent and Priority Information (Country, Number, Date):
Patent: WO 200202200 A1 20020110 (WO 0202200)
Application: WO 2001IB1474 20010628 (PCT/WO IB0101474)
Priority Application: US 2000215702 20000701
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 10234
English Abstract
Each of interacting toys comprises a housing defining its form and outward appearance, means for transmitting messages with information about the first toy, means of receiving messages transmitted by the other toy with information about the second toy, means for reproducing reaction of the first toy to the second toy and to the user interaction, storage means containing data about reactions of the first toy to various other toys and to various other actions. **Each of interacting toys periodically sends messages about itself to another toy and receives messages from it.** If the first toy detects the presence of the second toy, it reacts to this fact for example by making a sound characterizing the reaction of the first toy to the second toy. Type of reaction and its intensity level

depend on the information received from the second toy. The seconds toy operates in the same way. Thus, the imitation of various relationships between toys and the variety of toys' behavior is provided.

16/3,AB/5 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00837082
INTERACTIVE TOY APPLICATIONS
APPLICATIONS POUR JOUETS INTERACTIFS
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Patent and Priority Information (Country, Number, Date):
Patent: WO 200170361 A2 20010927 (WO 0170361)
Application: WO 2001IL268 20010320 (PCT/WO IL0100268)
Priority Application: US 2000192011 20000324; US 2000192012 20000324; US 2000192013 20000324; US 2000192014 20000324; US 2000193697 20000331; US 2000193699 20000331; US 2000193702 20000331; US 2000193703 20000331; US 2000193704 20000331; US 2000195861 20000407; US 2000195862 20000407; US 2000195863 20000407; US 2000195864 20000407; US 2000195865 20000407; US 2000195866 20000407; US 2000196227 20000410; US 2000197573 20000417; US 2000197576 20000417; US 2000197577 20000417; US 2000197578 20000417; US 2000197579 20000417; US 2000200508 20000428; US 2000200513 20000428; US 2000200639 20000428; US 2000200640 20000428; US 2000200641 20000428; US 2000200647 20000428; US 2000203175 20000508; US 2000203177 20000508; US 2000203182 20000508; US 2000203244 20000508; US 2000204201 20000515; US 2000204200 20000515; US 2000207126 20000525; US 2000207128 20000525; US 2000208105 20000526; US 2000208390 20000530; US 2000208391 20000530; US 2000208392 20000530; US 2000209471 20000605; US 2000210443 20000608; US 2000210445 20000608; US 2000212696 20000619; US 2000215360 20000630; US 2000216237 20000705; US 2000216238 20000705; US 2000217357 20000712; US 2000219234 20000718; US 2000220276 20000724; US 2000221933 20000731; US 2000223877 20000808; US 2000227112 20000822; US 2000229371 20000830; US 2000229648 20000831; US 2000231105 20000908; US 2000231103 20000908; US 2000234883 20000925; US 2000234895 20000925; US 2000239329 20001010; US

2000253362 20001127; US 2000250332 20001129; US 2000254699 20001211; US 2001267350 20010208
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 103613
English Abstract
In an interactive toy environment, in which a plurality of interactive toys are interconnected via a computer network and in which interactive toys interact with one or more users, an inter-toy communication system in which the interaction of a toy with its user is affected by the interaction of either that toy or another toy with another user. The interaction of a toy with its user is personalized and depends on knowledge of the characteristics of both the toy and its user. Interactive toys have real time conversations with users. Networked interactive toys are further able to communicate with computers on the network so that, if authorized, they are aware of the activities of other toys and of their users. Networked interactive toys may thus utilize information from any computer on the network. Interactive toy applications making use of these features are also provided.

16/6/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00566645
INTERACTIVE COMMUNICATION SYSTEM

16/3,AB/11 (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00529006
I*DOLL
POUPEE INTELLIGENTE
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Inventor(s):
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GABAI Jacob,
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COHEN Moshe,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9960358 A1 19991125
Application: WO 99IL271 19990520 (PCT/WO IL9900271)
Priority Application: US 9881889 19980520
Designated States: AE AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE

DE DK DK EE EE ES FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
SK SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 85449
English Abstract

Apparatus for a wireless computer controlled toy system is disclosed, the apparatus including a computer system (100, 105, 110) operative to transmit a first transmission via a first wireless transmitter (110) and at least one toy (120) including a first wireless receiver (130), the toy receiving the first transmission via the first wireless receiver and operative to carry out at least one action based on said first transmission. A method for controlling the toy system is also disclosed.

16/3,AB/12 (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00478713
INTERACTIVE TALKING TOY
JOUET PARLANT INTERACTIF
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Patent and Priority Information (Country, Number, Date):
Patent: WO 9910065 A2 19990304
Application: WO 98IL406 19980825 (PCT/WO IL9800406)
Priority Application: IL 121642 19970827; US 9862499 19980417
Designated States: AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE DE
DK DK EE EE ES FI FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK SL
TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG
KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF
BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 21190
English Abstract

A toy with developing skills, the toy including a fanciful figure (122, 124, 126) having a capacity to perform an action, and action control circuitry operative to control the fanciful figure to perform the action at different levels of skill at different times.

16/3,AB/13 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT